

Missouri Department of

Natural Resources

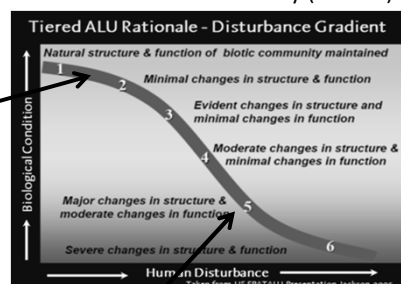
Tiered Aquatic Life Use Framework Water Classification Workgroup

John Hoke

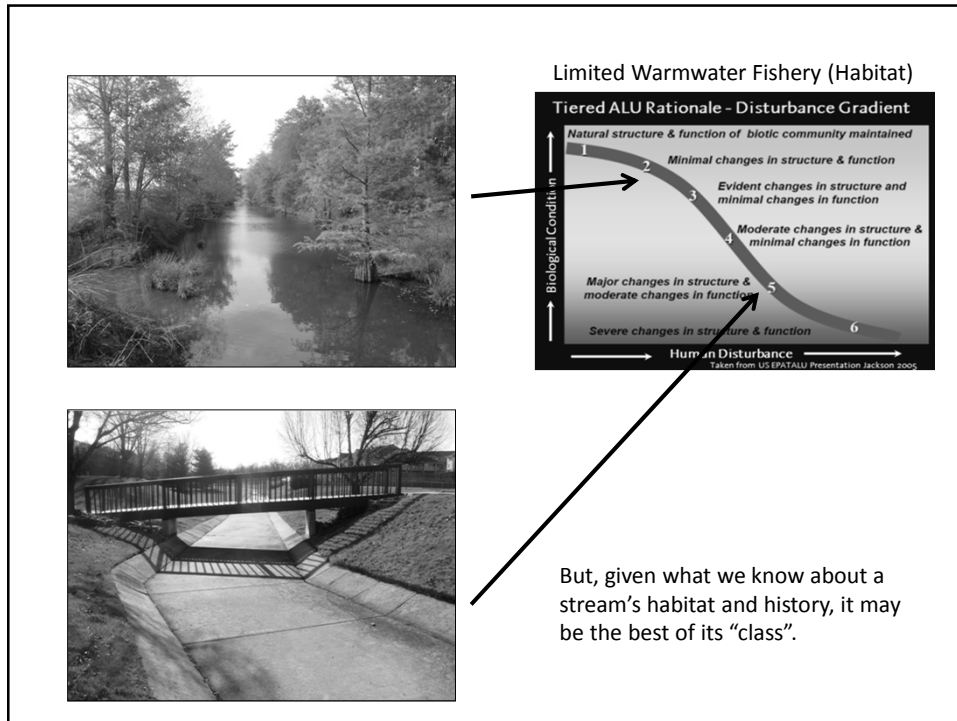
July 17, 2012

**MISSOURI**
DEPARTMENT OF
NATURAL RESOURCES

General Warmwater Fishery (Habitat)



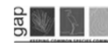
Current use designation framework holds these waters to the same "standard" of GWWF.



Sowa, S. P., D. D. Diamond, R. Abbitt, G. Annis, T. Gordon, M. E. Morey, G. R. Sorensen, and D. True. 2005.

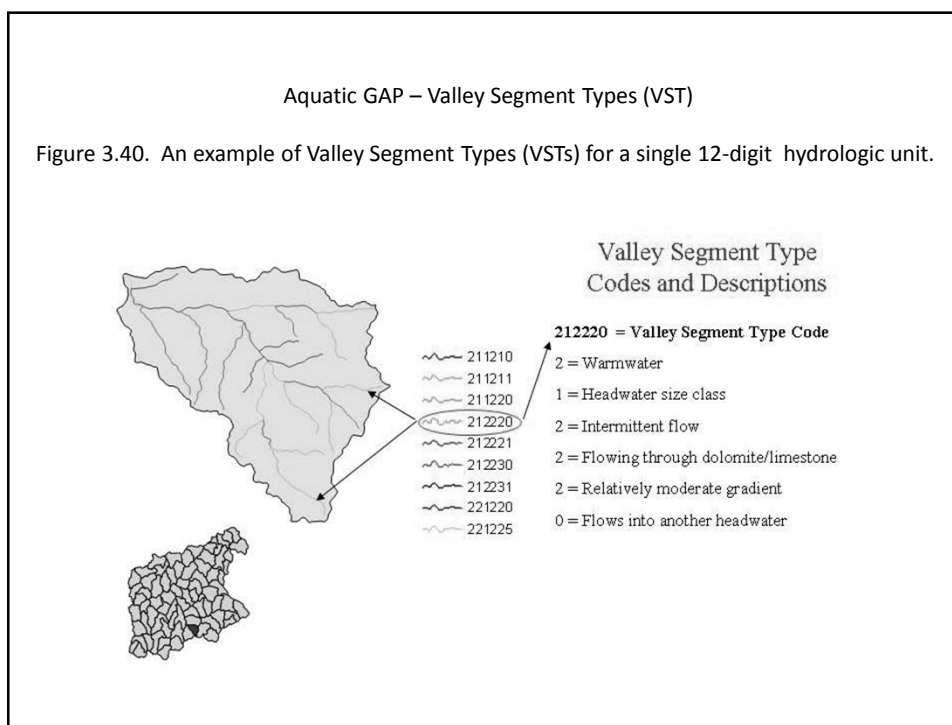
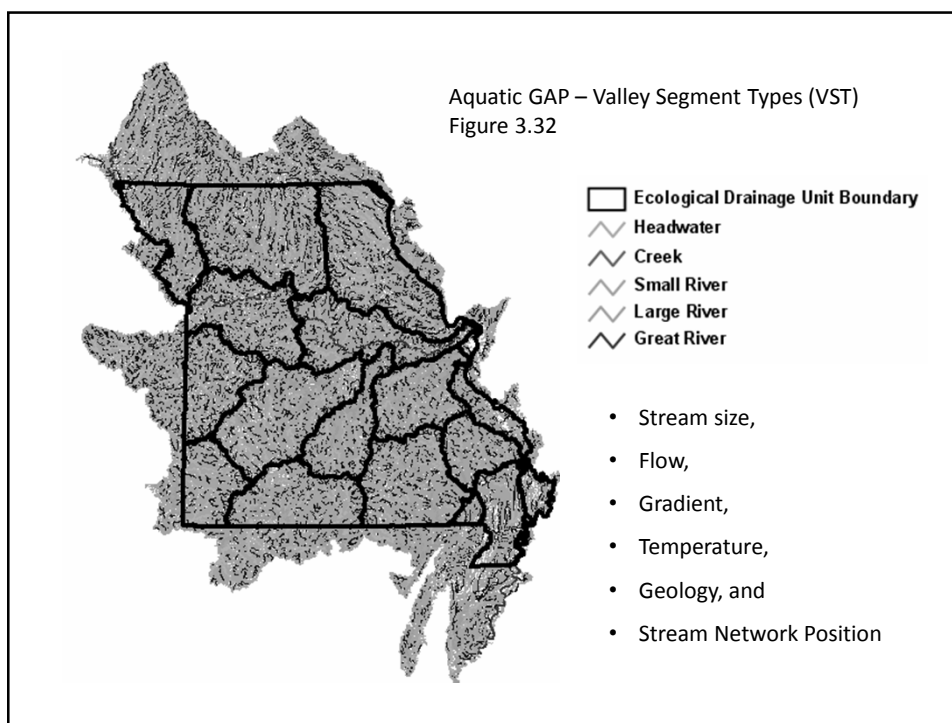
A Gap Analysis for Riverine Ecosystems of Missouri. Final Report, submitted to the USGS National Gap Analysis Program. 1675 pp.

<http://morap.missouri.edu/Projects.aspx?ProjectId=1>



Four principal GIS data sets were developed and used for this project:

- (1) a hierarchical riverine ecosystem classification,
- (2) predicted species distributions,
- (3) public ownership/stewardship, and
- (4) a human-threat index.



Tiered Aquatic Life Habitat Designated Use Framework for Missouri
using MORAP VSTs plus additional data

Warm water habitat:

- Warm water habitat (Great River)
- Warm water habitat (Large River)
- Warm water habitat (Small River)
- Warm water habitat (Creek)
- Warm water habitat (Headwater)

Cold water habitat:

- Cold water habitat (Natural)
- Cold water habitat (Stocked)

Cool water habitat (Any size)

Exceptional Aquatic Habitat (Tier 2.5)

- Any size, any temperature

Modified Aquatic Habitat

- Any size, any temperature
- UAA category

Tiered Aquatic Life Habitat Designated Use Framework for Missouri
using MORAP VSTs – Draft mileage estimates (subject to change)

Warm water habitat:

- Warm water habitat (Great River) – 1,034 miles
- Warm water habitat (Big River) – 565 miles
- Warm water habitat (Small River) – 3,194 miles
- Warm water habitat (Creek) – 14,034 miles
- Warm water habitat (Headwater) – 77,665 miles

Cold water habitat: 391 miles total

- Cold water habitat (Natural) – Unknown
- Cold water habitat (Stocked) – Unknown

Cool water habitat (Any size) – 11,271 miles

Conceptual Water Quality Standards Rule Language

(2) Designation of Uses

(A) Rebuttable presumption. Consistent with the presumptive beneficial use protections described by 40 CFR Part 131 and sections 101(a)(2) of the federal Clean Water Act, the Commission shall presume that all waters of the United States adjacent to and within the State of Missouri support the following designated uses: Aquatic habitat protection; Human health protection; Whole body contact recreation – Category B; and Secondary contact recreation, as defined in this rule. The Commission shall designate such water bodies accordingly, unless this presumption is properly rebutted through a Use Attainability Analysis as described below.

Conceptual Water Quality Standards Rule Language

(2) Designation of Uses

(B) Presumed Uses. The Commission shall also presume that all waters of the United States adjacent to and within the State of Missouri support Livestock and wildlife protection and Irrigation uses, as defined in this rule.

(C) Other Uses. Use designations other than those mentioned in subsections (A) and (B) of this rule may be applied to waters of the state on a site-by-site basis.

Conceptual Water Quality Standards Rule Language

(2) Designation of Uses

(D) Administration.

(1) The Commission shall administer Section (2) of this rule using a geospatial dataset of rivers and streams spatially represented by an enhanced 1:100,000 scale National Hydrography Dataset (NHD) containing sufficient and reliable hydrologic and biological data including, but not limited to, those data contained in Missouri's Aquatic GAP project.

Conceptual Water Quality Standards Rule Language

(2) Designation of Uses

(D) Administration (cont).

(2) The Commission shall also use those lakes and reservoirs that spatially intersect or are connected to the flowlines of rivers and streams identified in the enhanced 1:100,000 scale NHD geospatial dataset in the administration of Section (2) of this rule.